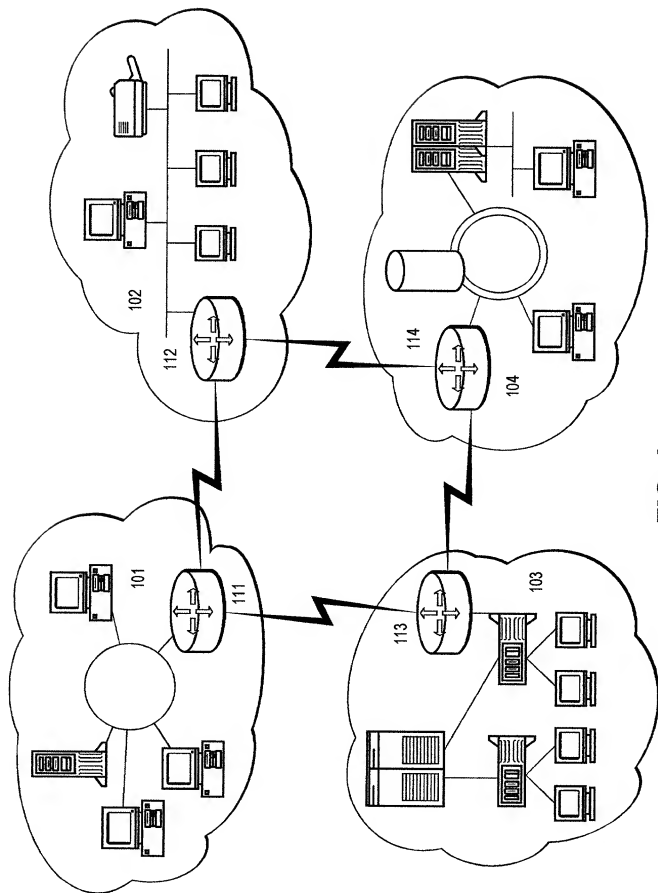
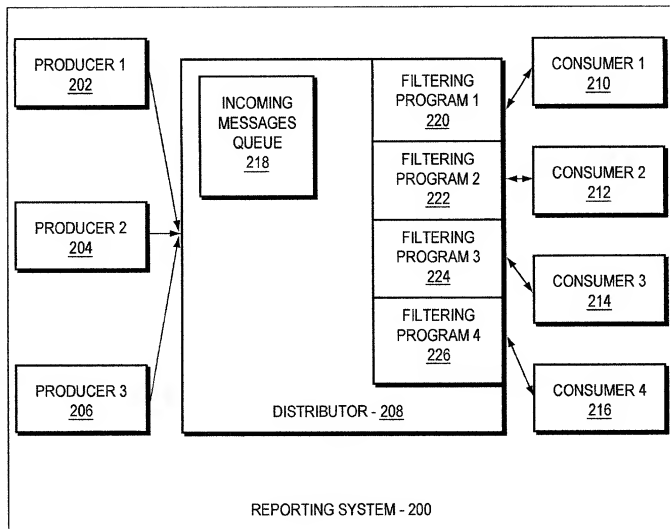
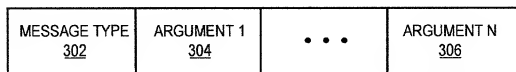


+

FIG. 1 is a schematic diagram of a network topology. The network consists of four interconnected cloud-like regions, each containing various devices and a central router. The regions are labeled 101, 102, 103, and 104. Region 101 contains a central router 111 connected to a server, a desktop computer, and a laptop. Region 102 contains a central router 112 connected to a server, a desktop computer, and a laptop. Region 103 contains a central router 113 connected to a server, a desktop computer, and a laptop. Region 104 contains a central router 114 connected to a server, a desktop computer, and a laptop. The routers 111, 112, 113, and 114 are interconnected in a mesh topology, with 111 connected to 112 and 113, 112 connected to 114, and 113 connected to 114. The connections between the routers are shown as thick, jagged lines.

**FIG. 1**

+

**FIG. 2****FIG. 3**

## BOOLEAN EXPRESSION

```

If (msg.data1 = 42 AND msg.data2 = 46 then
    return true;
else
    return false;

```

**FIG. 4A**

## SQL EXPRESSION

```

evaluateMsg(msg)
{
    If (msg.data1 .EQ. 42 AND msg.data2 .LE. 46)
    then
        return true;
    else
        return false;
}

```

**FIG. 4B**

## FILTERING PROGRAM

```

int num_msgs = 0;
evaluateMsg(msg)
{
    If (msg.data1 == 42)
    {
        num_msgs++;
        If(num_msgs = 5)
        {
            num_msgs = 0;
            return true;
        }
    }
    return false;
}

```

**FIG. 4C**